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CRT Controller Design Interface to the SDK-86 Single-Board Computer System

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CRT CONTROLLER DESIGN
INTERFACE TO THE SDK-86
SINGLE-BOARD COMPUTER SYSTEM

Submitted by
Kenneth J. Webb
April 26, 1989

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ABSTRACT OF
CRT INTERFACE DESIGN
TO THE SDK-86 MICROCOMPUTER
BY
KENNETH JOHN WEBB

In order to interface a CRT terminal to the SDK-86 microcomputer, several design approaches were researched. This document analyzes one of these designs utilizing the INTEL 8276 CRTIC IC. The design utilizes sixteen bit data lines, along with the twenty address lines of the 8086 uP. The design generates the appropriate horizontal and vertical sync signals but does not display the characters typed on the keyboard. A minor hardware adjustment utilizing the INTR line of the SDK-86 along with the appropriate software should eliminate this problem.